

Kelp Powder (Thallus laminariae)

Art. ID	NIST-3232
Unit	3 pouches x 5 g
Deliverydetails	No Dangerous Good /not restricted

Description

This Standard Reference Material (SRM®) is intended primarily for use in validating methods for determining elements, arsenic species, vitamin K1, and proximates in kelp and similar matrices. This SRM can also be used for quality assurance when assigning values to in-house control materials. A unit of NIST-3232 consists of three heat-sealed, aluminized pouches, each containing approximately 5 g of material. /// Sample value(s) - please ask for current certificate.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Certified Mass Fraction Value	Arsenic (As)	[7440-38-2]	38,3 ± 1,3	mg/kg		
Certified Mass Fraction Value	Cadmium (Cd)	[7440-43-9]	0,4259 ± 0,0084	mg/kg		
Certified Mass Fraction Value	Calcium (Ca)	[7440-70-2]	12260 ± 680	mg/kg		
Certified Mass Fraction Value	Chromium (Cr)	[7440-47-3]	5,92 ± 0,52	mg/kg		
Certified Mass Fraction Value	Copper (Cu)	[7440-50-8]	3,875 ± 0,087	mg/kg		
Certified Mass Fraction Value	Iodine (I)	[7553-56-2]	944 ± 88	mg/kg		
Certified Mass Fraction Value	Iron (Fe)	[7439-89-6]	672 ± 13	mg/kg		
Certified Mass Fraction Value	Lead (Pb)	[7439-92-1]	1,032 ± 0,039	mg/kg		
Certified Mass Fraction Value	Magnesium (Mg)	[7439-95-4]	6130 ± 180	mg/kg		
Certified Mass Fraction Value	Manganese (Mn)	[7439-96-5]	24,6 ± 1,6	mg/kg		
Certified Mass Fraction Value	Mercury (Hg)	[7439-97-6]	0,1129 ± 0,0032	mg/kg		
Certified Mass Fraction Value	Molybdenum (Mo)	[7439-98-7]	0,2441 ± 0,0091	mg/kg		
Certified Mass Fraction Value	Potassium (K)	[7440-09-7]	76000 ± 1100	mg/kg		
Certified Mass Fraction	Sodium (Na)	[7440-23-5]	16330 ± 380	mg/kg		

Value				
Certified Mass Fraction	Zinc (Zn)	[7440-66-6]	27,4 ± 1,1	mg/kg
Value				
Reference Mass Fraction	Aluminium (Al)	[7429-90-5]	1070 ± 110	mg/kg
Value				
Reference Mass Fraction	Chlorine (Cl)	[7782-50-5]	35600 ± 1200	mg/kg
Value				
Reference Mass Fraction	Cobalt (Co)	[7440-48-4]	0,307 ± 0,011	mg/kg
Value				
Reference Mass Fraction	Phosphorus (P)	[7723-14-0]	4551 ± 51	mg/kg
Value				
Reference Mass Fraction	Rubidium (Rb)	[7440-17-7]	28,44 ± 0,51	mg/kg
Value				
Reference Mass Fraction	Total Vitamin K1		0,431 ± 0,081	mg/kg
Value				
Reference Mass Fraction	cis-Vitamin K1		0,0353 ± 0,0067	mg/kg
Value				
Reference Mass Fraction	trans-Vitamin K1		0,396 ± 0,075	mg/kg
Value				
Reference Mass Fraction	Arsenosugar 328		1,20 ± 0,14	mg/kg
Value				
Reference Mass Fraction	Arsenosugar 392		14,06 ± 0,72	mg/kg
Value				
Reference Mass Fraction	Arsenosugar 482		5,59 ± 0,51	mg/kg
Value				
Reference Mass Fraction	Dimethylarsinic acid	[75-60-5]	0,479 ± 0,077	mg/kg
Value				
Reference Mass Fraction	Ash		23,55 ± 0,57	g/100 g
Value				
Reference Mass Fraction	Carbohydrates		56,7 ± 1,0	g/100 g
Value				
Reference Mass Fraction	Protein		14,48 ± 0,98	g/100 g
Value				
Reference Mass Fraction	Total fat		2,4 ± 1,3	g/100 g
Value				
Reference Mass Fraction	Calories		306,2 ± 4,0	kcal/100 g
Value				
Information Mass Fracti	Arsenous acid		<0,07	mg/kg

